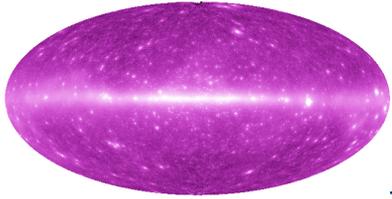


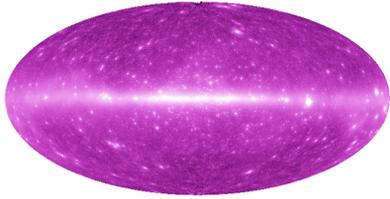
Science Analysis Requirements

- ◆ Why are We Here?
- ◆ Status
- ◆ To-do List
- ◆ Review of Requirements



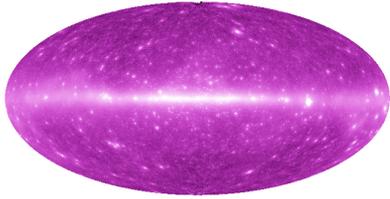
Why are We Here?

- ◆ Defining requirements to get the scope of the problem, for planning
- ◆ Must be done early (and carefully) because the analysis requirements are drivers for requirements across the data system



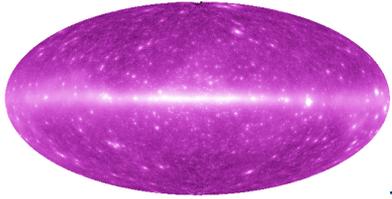
Status of the Working Group

- ◆ Early December: Issues defined, initial working group assembled, and draft requirements solicited
- ◆ January: breakout sessions at the software meeting at SLAC
- ◆ February: Inputs distilled into draft requirements document, circulated for comment
- ◆ Now: Review and comment
- ◆ Science Analysis software is taken here to mean all analysis software after reconstruction and cuts



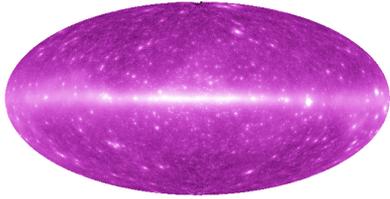
Working Group Membership

Elliott Bloom	- <i>WIMP lines</i>
Jerry Bonnell	- <i>GRB trigger, analyses</i>
Seth Digel	- <i>Interstellar emission, source catalog, databases</i>
Arache Djannati	- <i>Calibration (calorimeter)</i>
Isabelle Grenier	- <i>Interstellar emission, source catalog, unidentified sources</i>
Eric Grove	- <i>Calibration (calorimeter)</i>
Robert Johnson	- <i>Calibration (tracker)</i>
Y. C. Lin	- <i>Extragalactic point sources</i>
John Mattox	- <i>Periodicity searches, source identification, polarization</i>
Hans Mayer-Hasselwander	- <i>Calibration</i>
Pat Nolan	- <i>Point-source spectroscopy</i>
Jay Norris	- <i>GRB trigger, analyses</i>
Jonathan Ormes	- <i>Calibration (ACD), WIMP lines</i>
Steve Ritz	- <i>Calibration, multi-gamma events, EBL</i>
Jeff Scargle	- <i>GRB triggers, diffuse emission</i>
Dave Thompson	- <i>Pulsars</i>
Kent Wood	- <i>Unidentified sources</i>
Heather Arrighi, Cathie Meetre	- <i>Databases</i>



IDS Coordination

- | | |
|------------------|---|
| Chuck Dermer | - <i>Spectral studies of point sources and diffuse emission</i> |
| Brenda Dingus | - <i>GRBs, transient sources</i> |
| Martin Pohl | - <i>Diffuse emission from the Milky Way</i> |
| Stephen Thorsett | - <i>Pulsars</i> |



To-do List: Big Items

Near Term

- ◆ Prepare a description of how the science analysis requirements relate to the software requirements. {Working Group -- 1st draft by ~ March 1; review by April 1}
- ◆ Establish a cross-subsystem working group for calibration. {coordinator: J. Ormes, A. Djannati, E. Grove, R. Johnson, K. Wood, S. Digel & J. Norris -- established group ~ January 15; 1st draft of document ~ April 1}
- ◆ Define figures of merit for evaluating the astronomical performance of different configurations of GLAST {S. Digel & J. Norris, by ~ March 1}
- ◆ Quantitatively evaluate at least two versions of the GLAST tracker {May 1}
- ◆ Establish working group to unify pieces of simulations for WIMP lines {E. Bloom, J. Ormes, N. Johnson -- established group ~ January 15; answers by ~ May 1}

Longer Term

- ◆ From the Software Requirements prepare definitions of software modules {<summer, 2001}
- ◆ Sky Simulations: Prepare realistic γ -ray sky simulations as input to Glastsim, for support of the Mock Data Challenges {<summer, 2001}
- ◆ Analysis of Interstellar Emission -- Non-parametric characterization of the interstellar emission {<summer, 2001}
- ◆ Programming and testing of the science analysis software { ≤ 2003 }